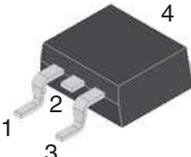
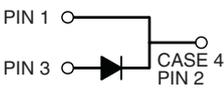


16 Amp. Surface Mount Schottky Barrier Rectifiers

<p>D²PAK</p>  	<p>Voltage 45 to 150 V</p> <p>Current 16 A</p> <ul style="list-style-type: none"> • For surface mounted application • Low forward voltage drop • High current capability • High reliability • High surge current capability <p>Mechanical Data</p> <ul style="list-style-type: none"> • Cases: D²PAK molded plastic • Epoxy: UL 94V-0 rate flame retardant • Terminals: Pure tin plated, lead free. solderable per MIL-STD-750, Method 2026 guaranteed • Polarity: As marked • High temperature soldering guaranteed: 260 °C/10 seconds at terminals • Weight: 2.24 grams
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Absolute Maximum Ratings, according to IEC publication No. 134

		MBRS 1645	MBRS 1660	MBRS 16100	MBRS 16150
V _{RRM}	Maximum recurrent peak reverse voltage (V)	45	60	100	150
V _{RMS}	Maximum RMS voltage (V)	31	42	70	105
V _{DC}	Maximum DC blocking voltage (V)	45	60	100	150
I _{F(AV)}	Maximum average forward rectified current See Fig.	16 A			
I _{FSM}	Peak Forward Surge Current 8.3 ms. single Half Sine-wave Superimposed on Rated Load (Jedec Method)	150 A			
T _j	Operating junction temperature range	– 65 to + 150 °C			
T _{stg}	Storage temperature range	– 65 to + 175 °C			

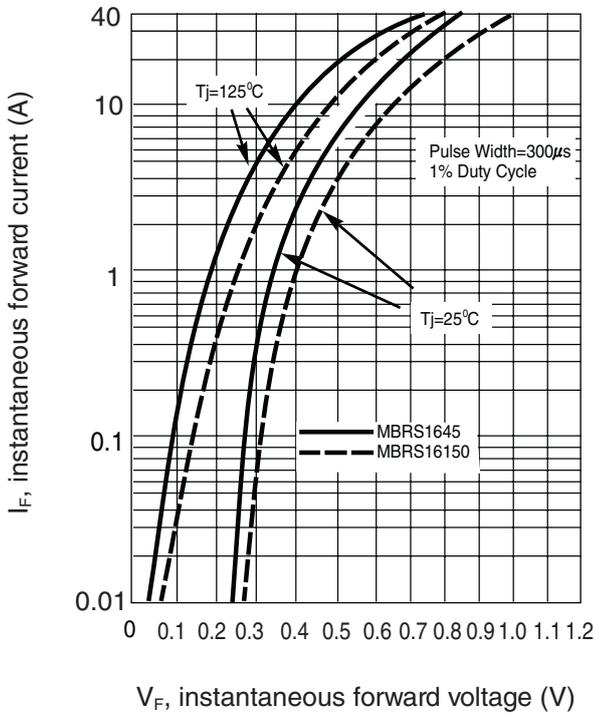
Electrical Characteristics

		MBRS 1645	MBRS 1660	MBRS 16100	MBRS 16150	
V _F	Max. instantaneous forward voltage at I _F = 16 A (Note 1)	T _c = 25 °C	0.63 V	0.75 V	0.85 V	0.95 V
		T _c = 125 °C	0.57 V	0.65 V	0.82 V	0.92 V
I _R	Maximum D.C. Reverse Current @ T _c = 25 °C at Rated DC Blocking Voltage @ T _c = 125 °C (Note 1)	0.5 mA			0.3 mA	0.1 mA
		15 mA	10 mA	7.5 mA	5.0 mA	
R _{thj-C}	Typical Thermal Resistance (Note 2)	1.5 °C/W				

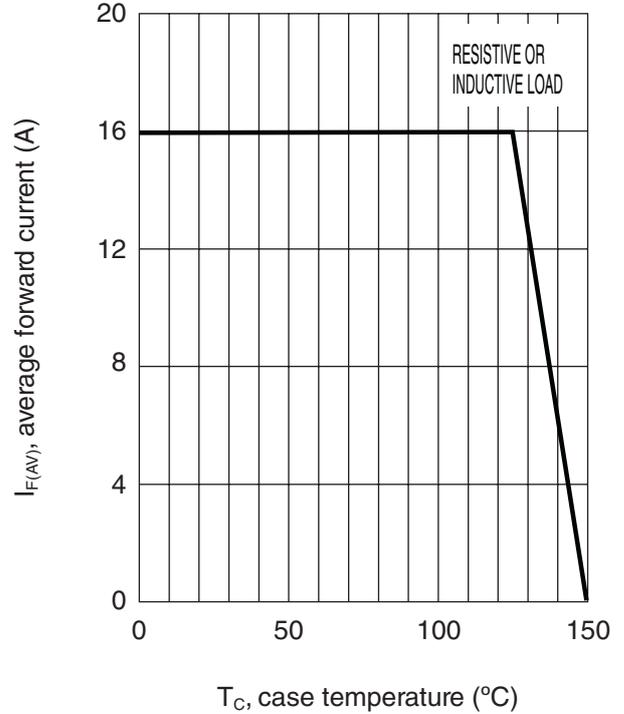
Note: 1. Pulse Test: 300µs Pulse Width, 1% Duty Cycle
2. Thermal Resistance from Junction to Case Per Leg

16 Amp. Surface Mount Schottky Barrier Rectifiers

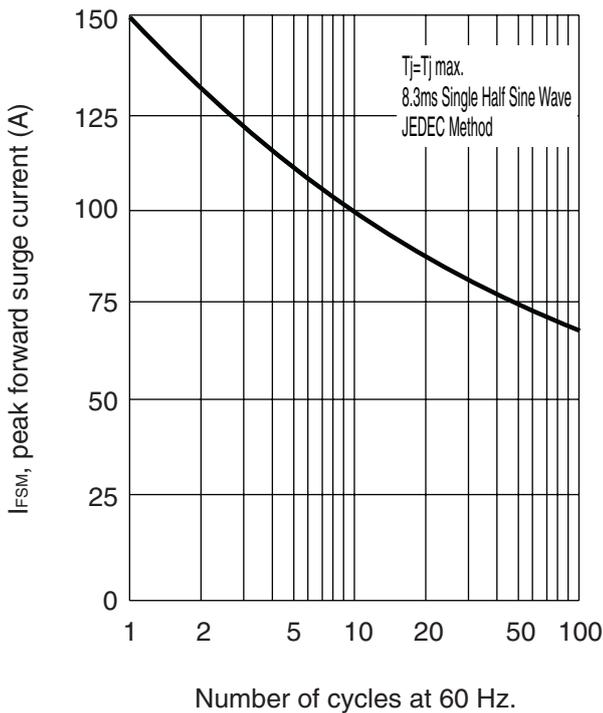
TYPICAL FORWARD CHARACTERISTIC PER LEG



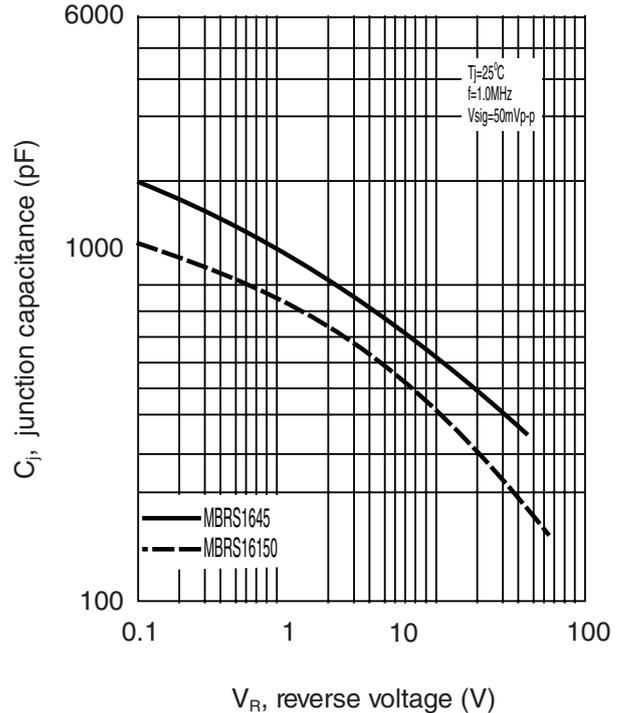
MAXIMUM FORWARD CURRENT DERATING CURVE



MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

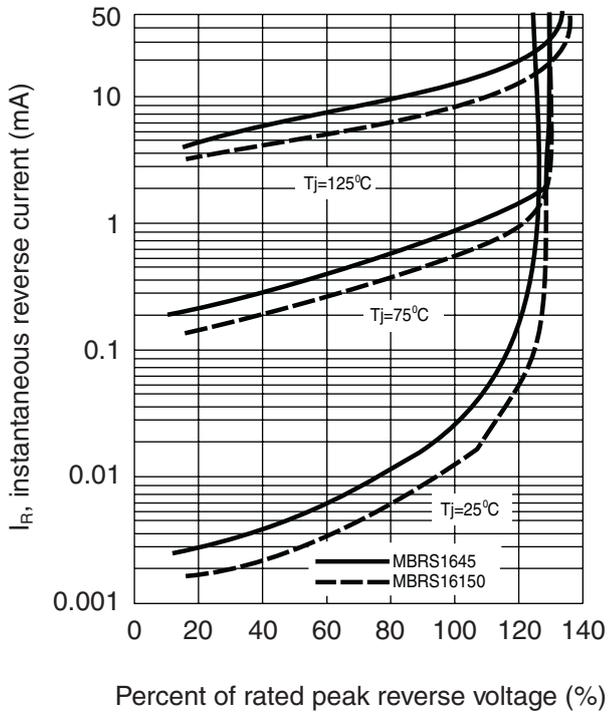


TYPICAL JUNCTION CAPACITANCE PER LEG

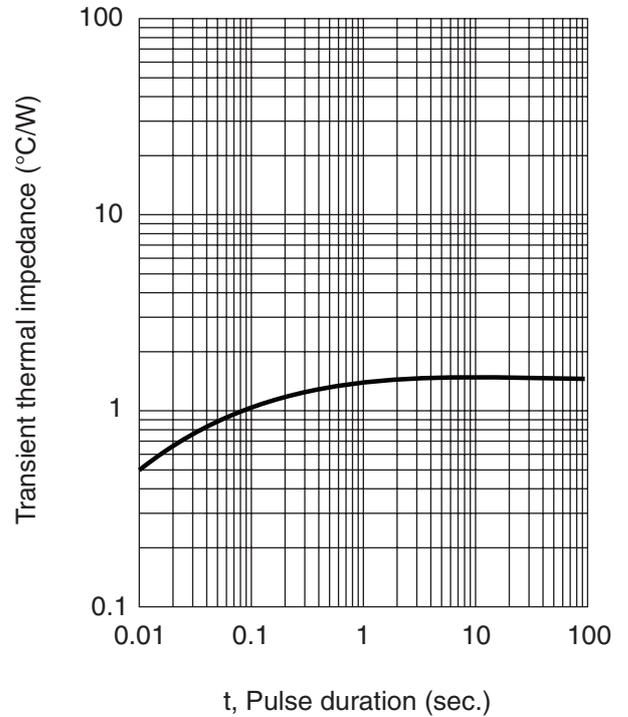


16 Amp. Surface Mount Schottky Barrier Rectifiers

TYPICAL REVERSE CHARACTERISTICS PER LEG

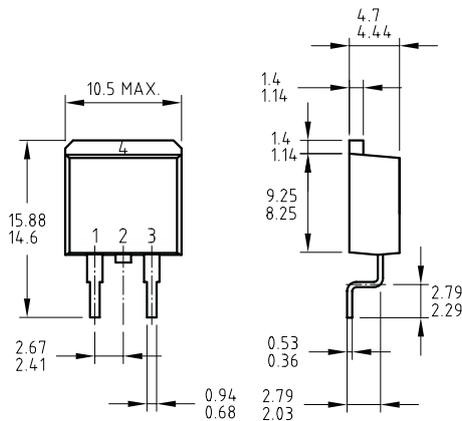


TYPICAL TRANSIENT THERMAL CHARACTERISTIC



PACKAGE MECHANICAL DATA

D²PAK



Dimensions in mm.